

Application Serial No. 09/720,762
Attorney Docket No. 114474.00014
Amendment and Response to Final Office Action, Submitted August 5, 2008

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AMENDMENTS TO THE CLAIMS

Please amend the claims as follows.

Claim 1 (currently amended): A gasket for a pre-filled syringe, the syringe comprising a barrel into which liquid is charged,

wherein a peripheral side surface of the gasket that contacts an inner surface of the syringe barrel is provided with a restriction, wherein the restriction has an inner diameter with a ratio of 0.8 or more and less than 1.0 to a diameter of the gasket, [wherein the restriction has a height at least one-third the length of the peripheral side surface,] and wherein a periphery of a bottom surface of the gasket that is not for contact with the liquid is formed into a tapered slant, and wherein only the peripheral side surface that contacts the inner surface of the syringe barrel is laminated with polyethylene fluoride resin.

Claim 2 (canceled)

Claim 3 (previously presented): The gasket according to claim 1, wherein the tapered slant is defined by a first diameter extending to the peripheral side surface that contacts the inner surface of the syringe barrel, and a second diameter of a peripheral side surface of the gasket that is not for contact with the inner surface of the syringe barrel, wherein the first diameter and the second diameter differ by between about 0.5 mm and about 5 mm.

Claim 4 (canceled)

Claim 5 (canceled)

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Claim 6 (previously presented): The gasket according to claim 1, wherein the gasket has a diameter between peripheral side surfaces that contact the inner surface of the syringe barrel of between about 30 mm and about 35 mm.

Claim 7 (previously presented): The gasket according to claim 1, wherein the gasket has a height of between 15 mm and about 18 mm.

Claim 8 (previously presented): The gasket according to claim 3, wherein the first diameter and the second diameter differ by between about 1 mm and about 3 mm.

Claim 9 (currently amended): A gasket for a pre-filled syringe, the syringe comprising a barrel into which liquid is charged,

wherein a peripheral side surface of the gasket that contacts an inner surface of the syringe barrel is provided with a restriction, wherein the restriction has an inner diameter with a ratio of 0.8 or more and less than 1.0 to a diameter of the gasket, [wherein the restriction has a height at least one-third the length of the peripheral side surface,] and wherein the peripheral side surface that contacts the inner surface of the syringe barrel is laminated with polyethylene fluoride resin, and wherein a periphery of a bottom surface of the gasket that is not for contact with the liquid is formed into a first tapered slant, and a second tapered slant is formed between the peripheral side surface of the gasket that contacts the inner surface of the syringe barrel and the restriction.

Claim 10 (canceled).

Claim 11 (previously presented): The gasket according to claim 1, wherein the pre-filled syringe further comprises a luer lock portion formed in a nozzle of the syringe at an end of the syringe barrel opposite the gasket.

Claim 12 (canceled).

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Claim 13 (previously presented): The gasket according to claim 9, wherein the pre-filled syringe further comprises a luer lock portion formed in a nozzle of the syringe at an end of the syringe barrel opposite the gasket.

Claim 14 (previously presented): The gasket according to claim 1, wherein the gasket is made integrally of a material with JIS hardness of 55 to 60.

Claim 15 (previously presented): The gasket according to claim 9, wherein the gasket is made integrally of a material with JIS hardness of 55 to 60.

Claim 16 (previously presented): The gasket according to claim 1, wherein a second tapered slant is formed between the peripheral side surface of the gasket that contacts the inner surface of the syringe barrel and the restriction.

Claim 17 (previously presented): The gasket according to claim 9, wherein a bottom surface of the gasket that is for contact with the liquid is laminated with polyethylene fluoride resin.

Claim 18 (previously presented): The gasket according to claim 9, wherein only the peripheral side surface that contacts the inner surface of the syringe barrel is laminated with polyethylene fluoride resin.

Claim 19 (previously presented): The gasket according to claim 9, wherein the first tapered slant is defined by a first diameter extending to the peripheral side surface that contacts the inner surface of the syringe barrel, and a second diameter of a peripheral side surface of the gasket that is not for contact with the inner surface of the syringe barrel, wherein the first diameter and the second diameter differ by between about 0.5 mm and about 5 mm.

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Claim 20 (previously presented): The gasket according to claim 9, wherein the gasket has a diameter between peripheral side surfaces that contact the inner surface of the syringe barrel of between about 30 mm and about 35 mm.

Claim 21 (previously presented): The gasket according to claim 9, wherein the gasket has a height of between 15 mm and about 18 mm.

Claim 22 (previously presented): The gasket according to claim 19, wherein the first diameter and the second diameter differ by between about 1 mm and about 3 mm.

Claim 23 (currently amended): A gasket for a pre-filled syringe, the syringe comprising a barrel into which liquid is charged,

wherein a peripheral side surface of the gasket that contacts an inner surface of the syringe barrel is provided with a restriction, wherein the restriction has an inner diameter with a ratio of 0.8 or more and less than 1.0 to a diameter of the gasket, [wherein the restriction has a height at least one-third the length of the peripheral side surface,] and wherein a periphery of a bottom surface of the gasket that is not for contact with the liquid is formed into a tapered slant, and wherein the peripheral side surface that contacts the inner surface of the syringe barrel is laminated with polyethylene fluoride resin.

Claim 24 (previously presented): The gasket according to claim 23, wherein the tapered slant is defined by a first diameter extending to the peripheral side surface that contacts the inner surface of the syringe barrel, and a second diameter of a peripheral side surface of the gasket that is not for contact with the inner surface of the syringe barrel, wherein the first diameter and the second diameter differ by between about 0.5 mm and about 5 mm.

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Claim 25 (previously presented): The gasket according to claim 23, wherein the gasket has a diameter between peripheral side surfaces that contact the inner surface of the syringe barrel of between about 30 mm and about 35 mm.

Claim 26 (previously presented): The gasket according to claim 23, wherein the gasket has a height of between 15 mm and about 18 mm.

Claim 27 (previously presented): The gasket according to claim 24, wherein the first diameter and the second diameter differ by between about 1 mm and about 3 mm.

Claim 28 (previously presented): The gasket according to claim 23, wherein the gasket is made integrally of a material with JIS hardness of 55 to 60.

Claim 29 (previously presented): The gasket according to claim 23, wherein the pre-filled syringe further comprises a lock lock portion formed in a nozzle of the syringe at an end of the syringe barrel opposite the gasket.

Claim 30 (previously presented): The gasket according to claim 23, wherein a second tapered slant is formed between the peripheral side surface of the gasket that contacts the inner surface of the syringe barrel and the restriction.

Claim 31 (previously presented): The gasket according to claim 23, wherein a bottom surface of the gasket that is for contact with the liquid is laminated with polyethylene fluoride resin.

Claim 32 (previously presented): The gasket according to claim 23, wherein only the peripheral side surface that contacts the inner surface of the syringe barrel is laminated with polyethylene fluoride resin.

Claim 33 (currently amended): A gasket for a pre-filled syringe, the syringe comprising a barrel into which liquid is charged,

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wherein a peripheral side surface of the gasket that contacts an inner surface of the syringe barrel is provided with a restriction, wherein the restriction has an inner diameter with a ratio of 0.8 or more and less than 1.0 to a diameter of the gasket, [wherein the restriction has a height at least one-third the length of the peripheral side surface,] and wherein a periphery of a bottom surface of the gasket that is not for contact with the liquid is formed into a tapered slant, and wherein only the peripheral side surface that contacts the inner surface of the syringe barrel is laminated with silicon.

Claim 34 (previously presented): The gasket according to claim 33, wherein the tapered slant is defined by a first diameter extending to the peripheral side surface that contacts the inner surface of the syringe barrel, and a second diameter of a peripheral side surface of the gasket that is not for contact with the inner surface of the syringe barrel, wherein the first diameter and the second diameter differ by between about 0.5 mm and about 5 mm.

Claim 35 (previously presented): The gasket according to claim 33, wherein the gasket has a diameter between peripheral side surfaces that contact the inner surface of the syringe barrel of between about 30 mm and about 35 mm.

Claim 36 (previously presented): The gasket according to claim 33, wherein the gasket has a height of between 15 mm and about 18 mm.

Claim 37 (previously presented): The gasket according to claim 34, wherein the first diameter and the second diameter differ by between about 1 mm and about 3 mm.

Claim 38 (previously presented): The gasket according to claim 33, wherein the gasket is made integrally of a material with JIS hardness of 55 to 60.